

ABSTRACT

A fuel injector has a piezoelectric or magnetostrictive actuator, which actuates a valve-closure member cooperating with a valve-seat surface to form a sealing seat. A hydraulic  
5 coupler includes a master piston, a slave piston, and a coupler volume formed in-between. The master piston and the slave piston are axially displaceable with respect to one another. The coupler volume is connected to a compensating chamber via a throttle. A flexible section delimits the  
10 compensating chamber at least partially, and the coupler volume, the throttle, and the compensating chamber are filled with a hydraulic medium. At least one spring element directly or indirectly exerts pressure on the flexible section from the outside, via fixed components.

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